compound comprising reinforcing fibers and hardening resins. Further, the underlayer may have a hardness and an elastic modulus which remain substantially constant between 70°C and 100°C. A method for making the tyre is also disclosed.--

IN THE CLAIMS:

Please cancel, without prejudice or disclaimer, claims 2-30, and add new-claims 31-60, as follows:

31. (new) A high performance tyre, comprising:

a darcass provided with at least one carcass ply;

a belt comprising two or more layers of reinforcing cords parallel to each other in a layer and crossed with respect to those of an adjacent layer, applied circumferentially on the carcass;

a radially-external layer of circumferentially-oriented reinforcing cords applied on the belt; and

a tread band comprising an underlayer and an external layer;

wherein the underlayer has a hardness which is substantially constant over a temperature range between 23°C and 100°C.

32. (new) The type of claim 31, wherein the hardness of the underlayer does not vary by more than 5 International Rubber Hardness Degrees (IRHD) over a temperature range between 23°C and 100°C.

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1300 l Street, NW Washington, DC 20005 202.408.4000 Fax 202.408.4400 www.finnegan.com 33. (new) The tyre of claim 32, wherein the hardness of the underlayer does not vary by more than 1 IRHD over a temperature range between 23°C and 100°C.

34. (new) The tyre of claim 31, wherein the hardness of the underlayer is greater than 80 IRHD at 100°C.

35. (new) The tyre of claim 34, wherein the hardness of the underlayer is greater than 85 IRHD at 100°C.

36. (new) A high performance tyre, comprising:

a carcass provided with at least one carcass ply;

a belt comprising two or more layers of reinforcing cords parallel to each other in a layer and crossed with respect to those of an adjacent layer, applied circumferentially on the carcass;

a radially-external layer of circumferentially-oriented reinforcing cords applied on the belt; and

a tread band comprising an underlayer and an external layer;

wherein the underlayer has an elastic modulus which is substantially constant over a temperature range between 70°C and 100°C.

37. (new) The tyre of claim 36, wherein the elastic modulus of the underlayer does not vary by more than 10% over a temperature range between 70°C and 100°C.

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38. (new) The tyre of claim 37, wherein the elastic modulus of the underlayer does not vary by more than 5% over a temperature range between 70°C and 100°C.

- 39. (new) The tyre of claim 36, wherein the elastic modulus of the underlayer is greater than 15 MPa at 100°C.
- 40. (new) The tyre of claim 39, wherein the elastic modulus of the underlayer is greater than 20 MPa at 100°C.

41. (new) A high performance tyre, comprising:

a carcass provided with at least one carcass ply;

a belt comprising two or more layers of reinforcing cords parallel to each other in a layer and crossed with respect to those of an adjacent layer, applied circumferentially on the carcass;

a radially-external layer of circumferentially-oriented reinforcing cords applied on the belt; and

a tread band comprising an underlayer and an external layer;

wherein the underlayer is made from an elastomer compound comprising reinforcing fibers and hardening resins.

42. (new) The tyre of claim 41, wherein the underlayer has a ratio between a 10% elongation load in a circumferential direction and a 10% elongation load in a transverse direction which is greater than 3:1.

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1300 I Street, NW Washington, DC 20005 202.408.4000 Fax 202.408.4400 www.finnegan.com 43. (new) The tyre of claim 41, wherein the hardening resins are based on components chosen from among one or more of the following groups: resorcinol-methylene donors, epoxides-dicarboxylic acids, epoxides-diamines, epoxides-polyols, and alcohol-diacids.

14. (new) The tyre of claim 43, wherein the methylene donors are hexamethoxymethylenemelamine (HMMM) or hexamethylenetetramine (HMT).

45. (new) The tyre of claim 41, wherein the underlayer comprises a hardening resin based on resorcinol and methylene donors in precondensed form in a quantity greater than 0.5 phr.

46. (new) The tyre of claim 41, wherein the elastomer compound comprises a hardening resin based on resorcinol and methylene donors in a form of two components, wherein a quantity of resorcinol is greater than 0.5 phr, and wherein a ratio of a quantity of methylene donors to the quantity of resorcinol is between 0.5:1 and 3:1.

- 47. (new) The tyre of claim 41, wherein the reinforcing fibers are chosen from among: polyamides, polyesters, polyolefins, carbon fibers, glass fibers, and polyvinyl alcohol.
 - 48. (new) The tyre of claim 41, wherein the reinforcing fibers are aramid fibers.
- 49. (new) The tyre of claim 48, wherein the elastomer compound comprises a quantity of aramid fibers ranging between 3 phr and 10 phr.

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50. (new) The tyre of claim 49, wherein the elastomer compound comprises a quantity of aramid fibers ranging between 6 phr and 9 phr.

51. (new) The tyre of claim 41, wherein the underlayer has a thickness greater than 1 mm.

52. (new) The tyre of claim 51, wherein the underlayer has a thickness between 1.5 mm and 2 mm.

53. (new) The tyre of claim 51, wherein the thickness of the underlayer is variable.

\$4. (new) A high performance tyre, comprising:

a carcass provided with at least one carcass ply;

a belt comprising two or more layers of reinforcing cords parallel to each other in a layer and crossed with respect to those of the adjacent layer, applied circumferentially on the carcass;

a radially-external layer of circumferentially-oriented reinforcing cords applied on the belt; and

a tread band comprising an underlayer and an external layer;

wherein the underlayer has a hardness and an elastic modulus which remain substantially constant between 70°C and 100°C.

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1300 I Street, NW Washington, DC 20005 202.408.4000 Fax 202.408.4400 www.finnegan.com 55. (new) A method for improving behaviour at high speeds of a high performance tyre, the tyre comprising:

a carcass provided with at least one carcass ply;

a belt comprising two or more layers of reinforcing cords parallel to each other in a layer and crossed with respect to those of an adjacent layer, applied circumferentially on the carcass; and

a radially-external layer of circumferentially-oriented reinforcing cords applied on the belt;

the method comprising the step of mounting on a periphery of the radially-external layer a tread band comprising an underlayer and an external layer,

wherein the underlayer comprises a thermostable compound.

- 56. (new) The method of claim 55, wherein the thermostable compound comprises reinforcing fibers and hardening resins.
- 57. (new) The method of claim 55, wherein the thermostable compound has an elastic modulus which is substantially constant over a temperature range between 70°C and 100°C.

which is substantially constant over a temperature range between 23°C and 100°C.

59. (new) The method of claim 55, wherein the tread band is obtained by coextruding the underlayer and the external layer.